



Complete Summary

TITLE

Heart failure in adults: percentage of adult patients with heart failure (HF) who have had an evaluation of left ventricular function.

SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Heart failure in adults. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2004 Feb. 83 p. [104 references]

Brief Abstract

DESCRIPTION

This measure assesses the percentage of adult patients with heart failure (HF) who have had an evaluation of left ventricular function.

RATIONALE

The priority aim addressed by this measure is to improve the treatment of patients with heart failure by assuring that patients have the etiology and/or precipitating factors of heart failure (HF) identified during initial evaluation.

PRIMARY CLINICAL COMPONENT

Heart failure; left ventricular function

DENOMINATOR DESCRIPTION

Total number of patients with heart failure (HF) whose medical records are reviewed (see the related "Denominator Inclusions/Exclusions" field in the Complete Summary)

NUMERATOR DESCRIPTION

Number of patients with heart failure (HF) who received assessment of left ventricular function evaluation by echocardiogram or radionuclide ventriculogram

Evidence Supporting the Measure

PRIMARY MEASURE DOMAIN

Process

SECONDARY MEASURE DOMAIN

Not applicable

EVIDENCE SUPPORTING THE MEASURE

A clinical practice guideline or other peer-reviewed synthesis of the clinical evidence

NATIONAL GUIDELINE CLEARINGHOUSE LINK

- [Heart failure in adults.](#)

Evidence Supporting Need for the Measure

NEED FOR THE MEASURE

Unspecified

State of Use of the Measure

STATE OF USE

Current routine use

CURRENT USE

Internal quality improvement

Application of Measure in its Current Use

CARE SETTING

Physician Group Practices/Clinics

PROFESSIONALS RESPONSIBLE FOR HEALTH CARE

Physicians

LOWEST LEVEL OF HEALTH CARE DELIVERY ADDRESSED

Group Clinical Practices

TARGET POPULATION AGE

Age greater than or equal to 18 years

TARGET POPULATION GENDER

Either male or female

STRATIFICATION BY VULNERABLE POPULATIONS

Unspecified

Characteristics of the Primary Clinical Component

INCIDENCE/PREVALENCE

Unspecified

ASSOCIATION WITH VULNERABLE POPULATIONS

Unspecified

BURDEN OF ILLNESS

Unspecified

UTILIZATION

Unspecified

COSTS

Unspecified

Institute of Medicine National Healthcare Quality Report Categories

IOM CARE NEED

Living with Illness

IOM DOMAIN

Effectiveness

Data Collection for the Measure

CASE FINDING

Users of care only

DESCRIPTION OF CASE FINDING

Adult patients 18 years of age or older diagnosed with heart failure (HF)

From the medical group's claims/encounter (billing) data or from appointment lists (if billing data are inaccessible), identify all patients age 18 and older with one or more visits for HF in the quarter. From this pool of patients unique within that quarter, randomly select 20 patients for each month.

Patients should be unique within each quarter but can repeat from one quarter to the next.

For groups without access to billing information, a process similar to the following may be helpful:

1. Determine the beginning and ending dates of the quarter, a three month period.
2. At the end of the first quarter, review Month 1's appointment lists for people who had one or more visits for HF. Suppose there were 25 people in Month 1. Randomly select 20 people and review their records, using the attached form (refer to the original measure documentation).
3. At the end of the second month of the quarter, review Month 2's appointment lists for people who had visits for HF. Suppose there were 30 people in Month 2. Make a list of those 30 names, deleting any patients who had been reviewed in Month 1. Suppose three people seen in Month 2 had been reviewed in Month 1. These three people are deleted from the 30, leaving 27 potential people to review. Randomly select 20 people and review their records, using the attached form (refer to the original measure documentation).
4. At the end of the third month of the quarter, review Month 3's appointment lists for people who had visits for HF. Suppose there were 28 people in Month 3. Make a list of those 28 names, deleting any patients who had been reviewed in Month 1 or Month 2. Suppose five people seen in Month 3 had been reviewed in Month 1 or Month 2. These five people are deleted from the 28, leaving 23 potential people to review. Randomly select 20 people and review their records, using the attached form (refer to the original measure documentation).
5. At the start of the next quarter, start the process over with Step 2. Do not worry about including people who had been reviewed in the previous quarter.

Ordinarily, the sample would be drawn quarterly; data would be abstracted monthly.

DENOMINATOR SAMPLING FRAME

Patients associated with provider

DENOMINATOR (INDEX) EVENT

Clinical Condition
Encounter

DENOMINATOR INCLUSIONS/EXCLUSIONS

Inclusions

Total number of patients with heart failure (HF) whose medical records are reviewed*

*Patients age 18 and older with HF as defined by: one or more visits with any (primary or secondary) diagnosis of HF (International Classification of Diseases, Ninth Revision [ICD-9] code 402.01, 402.11, 402.91, 404.01, 404.03, 404.11, 404.13, 404.91, 404.93, 428.0 428.1, 428.82, 428.3, 428.4, or 428.9) in the last quarter.

Exclusions

Unspecified

NUMERATOR INCLUSIONS/EXCLUSIONS

Inclusions

Number of patients with heart failure (HF) who received assessment of left ventricular function evaluation by echocardiogram or radionuclide ventriculogram

Exclusions

Unspecified

DENOMINATOR TIME WINDOW

Time window is a fixed period of time

NUMERATOR TIME WINDOW

Fixed time period

DATA SOURCE

Administrative data

Medical record

LEVEL OF DETERMINATION OF QUALITY

Individual Case

PRE-EXISTING INSTRUMENT USED

Unspecified

Computation of the Measure

SCORING

Rate

INTERPRETATION OF SCORE

Better quality is associated with a higher score

ALLOWANCE FOR PATIENT FACTORS

Unspecified

STANDARD OF COMPARISON

Internal time comparison

Evaluation of Measure Properties

EXTENT OF MEASURE TESTING

Unspecified

Identifying Information

ORIGINAL TITLE

Percentage of adult patients with HF who have had an evaluation of left ventricular function.

MEASURE COLLECTION

[Heart Failure in Adults Measures](#)

DEVELOPER

Institute for Clinical Systems Improvement

ADAPTATION

Measure was not adapted from another source.

RELEASE DATE

2003 Jul

REVISION DATE

2004 Feb

MEASURE STATUS

This is the current release of the measure.

This measure updates a previous version: Institute for Clinical Systems Improvement (ICSI). Congestive heart failure in adults. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2003 Jul. 80 p.

SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Heart failure in adults. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2004 Feb. 83 p. [104 references]

MEASURE AVAILABILITY

The individual measure, "Percentage of patients with HF who have had evaluation of left ventricular function," is published in "Health Care Guideline: Heart Failure in Adults." This document is available from the [Institute for Clinical Systems Improvement \(ICSI\) Web site](#).

For more information, contact ICSI at, 8009 34th Avenue South, Suite 1200, Bloomington, MN 55425; phone: 952-814-7060; fax: 952-858-9675; Web site: www.icsi.org; e-mail: icsi.info@icsi.org.

NQMC STATUS

This NQMC summary was completed by ECRI on April 6, 2004. This summary was updated by ECRI on July 29, 2004.

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